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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/562,109	12/22/2005	Sven-erik Hedberg	P05,0366	6266
26574 SCHIFF HARD	7590 11/19/2007 DIN. LLP	7	EXAMINER	
PATENT DEPARTMENT			MANUEL, GEORGE C	
6600 SEARS TOWER CHICAGO, IL 60606-6473			ART UNIT	PAPER NUMBER
			3762	
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			MAIL DATE	DELIVERY MODE
			11/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)			
	10/562,109	HEDBERG ET AL.			
Office Action Summary	Examiner	Art Unit			
	George Manuel	3762			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from to cause the application to become ABANDONED	I. lely filed the mailing date of this communication. O (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on 2a) ☐ This action is FINAL . 2b) ☑ This 3) ☐ Since this application is in condition for allowan closed in accordance with the practice under E	_ action is non-final. ace except for formal matters, pro				
Disposition of Claims					
4) Claim(s) 21-42 is/are pending in the application 4a) Of the above claim(s) is/are withdraw 5) Claim(s) is/are allowed. 6) Claim(s) 21-42 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or Application Papers 9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or	vn from consideration. relection requirement. r. epted or b) □ objected to by the Edrawing(s) be held in abeyance. See	37 CFR 1.85(a).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119		risaism si ismir ro risa.			
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6/9/06.	4) Interview Summary (Paper No(s)/Mail Da 5) Notice of Informal Pa 6) Other:	te			

DETAILED ACTION

Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 21-42 are provisionally rejected on the ground of nonstatutory obviousness-type double patenting as being unpatentable over claims 27-49 of copending Application No. 10/562,181. Although the conflicting claims are not identical, they are not patentably distinct from each other because both sets of claims are directed to obvious variations of detecting diastolic heart failure.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

Claim 21, 22, 26-29, 31, 34, 35, 38-40 and 42 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Baumann et al (US 6,876,881).

Baumann et al define pulse pressure as the difference between peak systolic aortic pressure and end-diastolic aortic pressure. The examiner is interpreting a pressure measuring unit to comprise algorithms that operate on transient changes in atrial cycle length or ventricular cycle length to measure pulse pressure. Also, a pressure transducer may be disposed on a right or left ventricular pacing lead for determining end-diastolic or end-systolic pressure as taught by Baumann et al.

Baseline aortic pressure provides a reference value for a comparison with a comparator for determining an optimum paced site that provides a maximum increase in aortic pressure over the baseline aortic pressure. Baumann et al teach hemodynamic performance is reflected in a patient's pulse pressure and that pacing can be used to improve the hemodynamics in congestive heart failure patients. Based on the hemodynamic performance obtained from the pressure comparisons, the diastolic heart failure state of the heart is determined.

Regarding claim 26, FIG. 2 shows a block diagram of a microprocessor-based controller 24. It includes a microprocessor chip 34 and associated RAM and ROM memory modules 36 and 38.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 24, 25, 36 and 37 are rejected under 35 U.S.C. 103(a) as being unpatentable over Baumann et al (US 6,876,881).

Regarding claims 24 and 36, one of ordinary skill in the art would have found it obvious to form an average value of the pulse pressure to avoid inaccuracies due to noise. Baumann et al teach averaging techniques are used to extract data from repeated tests and to avoid inaccuracies due to noise.

Regarding claims 25 and 37, one of ordinary skill in the art would have found it obvious to wirelessly transmit the comparison result to an external receiver because external programmer 32 is arranged to receive signals originating within the pacemaker and because the comparison is information useful to a physician for programming parameters. Baumann et al also teach the external programmer may be used to

receive signals and pass them on to an external monitor.

Claims 23, 30, 32 and 33 are objected to as being dependent upon a rejected base claim.

A workload calculator using the activity signal to determine a current workload, and delivering photo-plethysmographic signals do not appear to shown nor suggested by the prior art, nor does it appear obvious to modify the prior art to obtain such a calculator or photo-plethysmographic signals.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Manuel whose telephone number is (571) 272-4952.

> /George Manuel/ George Manuel Primary Examiner Art Unit: 3762